



Water-Data Report NV-2005

## 10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV

TRUCKEE RIVER BASIN, LAKE TAHOE

LOCATION.--Lat 39°04'00", long 119°56'04" referenced to North American Datum of 1927, in NW ¼ NW ¼ sec.23, T.14 N., R.18 E., Douglas County, Hydrologic Unit 16050101, on right bank, 0.1 mi downstream from unnamed tributary, 0.3 mi upstream from U.S. Highway 50, and 1.6 mi south of Glenbrook.

DRAINAGE AREA.--2.09 mi<sup>2</sup>.

### **WATER-DISCHARGE RECORDS**

PERIOD OF RECORD.--Oct 1983 to current year.

REVISED RECORDS.--WDR NV-00-1: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 6,640 ft above National Geodetic Vertical Datum of 1929, from topographic map.

REMARKS.--Records fair except for estimated daily discharges, which are poor. One small diversion 50 ft. upstream from station for domestic use.

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 12.0 ft<sup>3</sup>/s, Jan 2, 1997 and Jun 12, 1998, gage height, 4.75 ft.; no flow many days in 1992.

PEAK DISCHARGES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 3.0 ft<sup>3</sup>/s and (or) maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
May 18	1945	*6.4	*4.58

**10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV—Continued**

**DISCHARGE, CUBIC FEET PER SECOND**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**  
**DAILY MEAN VALUES**  
[*e*, estimated]

<b>Day</b>	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>1</b>	0.06	0.20	e0.18	0.19	0.19	0.22	0.46	1.9	1.9	0.69	0.09	0.06
<b>2</b>	0.06	0.20	e0.18	0.19	0.19	0.23	0.52	2.2	1.7	0.53	0.08	0.06
<b>3</b>	0.07	0.26	e0.18	0.18	0.20	0.22	0.54	2.4	1.5	0.43	0.08	0.06
<b>4</b>	0.06	0.25	e0.18	0.19	0.20	0.22	0.46	2.1	1.5	0.34	0.08	0.06
<b>5</b>	0.06	0.23	e0.18	0.18	0.21	0.23	0.51	2.4	1.4	0.29	0.08	0.07
<b>6</b>	0.06	0.24	e0.18	0.18	0.21	0.25	0.69	1.9	1.4	0.27	0.09	0.08
<b>7</b>	0.06	0.27	e0.18	0.20	0.21	0.27	0.67	2.1	1.4	0.26	0.09	0.08
<b>8</b>	0.06	0.29	e0.18	0.20	0.20	0.30	0.52	2.4	1.5	0.25	0.07	0.08
<b>9</b>	0.06	0.37	e0.18	0.20	0.20	0.37	0.46	2.1	1.5	0.25	0.07	0.10
<b>10</b>	0.06	0.30	0.18	0.20	0.20	0.48	0.44	1.6	1.4	0.25	0.07	0.10
<b>11</b>	0.07	0.30	0.22	0.19	0.21	0.53	0.56	1.8	1.2	0.23	0.06	0.11
<b>12</b>	0.08	0.27	0.23	0.17	0.21	0.55	0.70	2.2	1.1	0.20	0.06	0.13
<b>13</b>	0.08	0.25	0.20	0.18	0.21	0.50	0.67	3.0	1.00	0.18	0.06	0.13
<b>14</b>	0.08	0.23	0.19	0.16	0.22	0.40	0.59	3.4	0.93	0.16	0.06	0.13
<b>15</b>	0.07	0.21	0.20	0.16	0.21	0.35	0.68	3.5	0.88	0.15	0.08	0.13
<b>16</b>	0.08	0.19	0.21	0.18	0.21	0.33	0.95	4.1	0.82	0.14	0.12	0.12
<b>17</b>	0.10	0.20	0.20	0.17	0.22	0.29	1.3	2.8	0.95	0.13	0.12	0.13
<b>18</b>	0.11	0.20	0.20	0.17	0.22	0.29	1.3	4.6	0.88	0.12	0.09	0.13
<b>19</b>	0.12	0.22	0.20	0.18	0.22	0.31	1.0	4.5	0.82	0.12	0.08	0.12
<b>20</b>	0.15	0.20	0.21	0.19	0.22	0.31	0.85	4.1	0.75	0.11	0.08	0.13
<b>21</b>	0.14	e0.20	0.19	0.19	0.22	0.28	0.99	3.6	0.68	0.12	0.07	0.18
<b>22</b>	0.13	e0.19	0.17	0.19	0.22	0.32	1.3	3.6	0.63	0.13	0.06	0.16
<b>23</b>	0.18	e0.18	0.17	0.19	0.22	0.31	1.1	3.7	0.59	0.12	0.06	0.14
<b>24</b>	0.25	0.18	e0.17	0.20	0.22	0.28	0.96	3.4	0.60	0.10	0.06	0.15
<b>25</b>	0.19	e0.18	e0.17	0.21	0.24	0.27	1.2	3.3	0.58	0.09	0.06	0.15
<b>26</b>	0.22	e0.18	0.17	0.21	0.23	0.29	1.5	3.1	0.56	0.08	0.06	0.18
<b>27</b>	0.20	e0.18	0.15	0.21	0.22	0.39	1.8	3.0	0.53	0.08	0.07	0.26
<b>28</b>	0.20	e0.18	0.16	0.21	0.22	0.42	1.4	2.7	0.52	0.09	0.07	0.20
<b>29</b>	0.23	e0.18	0.16	0.19	---	0.39	1.7	2.3	0.67	0.11	0.06	0.18
<b>30</b>	0.22	e0.18	0.18	0.19	---	0.36	2.0	2.1	0.72	0.11	0.06	0.17
<b>31</b>	0.23	---	0.19	0.20	---	0.38	---	2.1	---	0.10	0.06	---
<b>Total</b>	3.74	6.71	5.74	5.85	5.95	10.34	27.82	88.0	30.61	6.23	2.30	3.78
<b>Mean</b>	0.12	0.22	0.19	0.19	0.21	0.33	0.93	2.84	1.02	0.20	0.07	0.13
<b>Max</b>	0.25	0.37	0.23	0.21	0.24	0.55	2.0	4.6	1.9	0.69	0.12	0.26
<b>Min</b>	0.06	0.18	0.15	0.16	0.19	0.22	0.44	1.6	0.52	0.08	0.06	0.06
<b>Ac-ft</b>	7.4	13	11	12	12	21	55	175	61	12	4.6	7.5

**STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1984 - 2005, BY WATER YEAR (WY)**

	<b>Oct</b>	<b>Nov</b>	<b>Dec</b>	<b>Jan</b>	<b>Feb</b>	<b>Mar</b>	<b>Apr</b>	<b>May</b>	<b>Jun</b>	<b>Jul</b>	<b>Aug</b>	<b>Sep</b>
<b>Mean</b>	0.34	0.40	0.40	0.40	0.38	0.66	1.25	1.56	0.84	0.36	0.22	0.25
<b>Max</b>	1.10	1.48	1.49	1.29	1.00	1.59	2.96	4.89	3.81	1.53	1.02	1.06
(WY)	(2000)	(1984)	(1984)	(1997)	(1984)	(2000)	(1999)	(1999)	(1998)	(1999)	(1999)	(1999)
<b>Min</b>	0.04	0.06	0.00	0.05	0.07	0.09	0.15	0.01	0.01	0.01	0.00	0.01
(WY)	(1989)	(1992)	(1992)	(1992)	(1991)	(1991)	(1992)	(1992)	(1992)	(1991)	(1988)	(1988)

**10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV—Continued****SUMMARY STATISTICS**

	<b>Calendar Year 2004</b>		<b>Water Year 2005</b>		<b>Water Years 1984 - 2005</b>	
<b>Annual total</b>	109.27		197.07			
<b>Annual mean</b>	0.30		0.54		0.59	
<b>Highest annual mean</b>					1.73	1999
<b>Lowest annual mean</b>					0.05	1992
<b>Highest daily mean</b>	2.0	Mar 21	4.6	May 18	8.7	Jan 2, 1997
<b>Lowest daily mean</b>	0.05	Jul 16	0.06	Oct 1	0.00	Jul 13, 1988
<b>Annual seven-day minimum</b>	0.05	Jul 16	0.06	Oct 4	0.00	Jul 13, 1988
<b>Maximum peak flow</b>			6.4	May 18	12	Jan 2, 1997
<b>Maximum peak stage</b>			4.58	May 18	4.75	Jan 2, 1997
<b>Annual runoff (ac-ft)</b>	217		391		426	
<b>10 percent exceeds</b>	0.86		1.5		1.4	
<b>50 percent exceeds</b>	0.18		0.20		0.31	
<b>90 percent exceeds</b>	0.06		0.08		0.05	

**10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV—Continued**

**WATER-QUALITY RECORDS**

PERIOD OF RECORD.--Water years 1983 to current year.

REMARKS.--In Nov 1987, station was incorporated into the expanded Lake Tahoe Interagency Monitoring Program to monitor tributary contributions of nutrients and sediment to Lake Tahoe. Nutrient samples were analyzed by the University of California, Davis, Tahoe Research Group. Quality assurance samples associated with the entire Lake Tahoe Interagency Monitoring Program are listed under station numbers 103366769999 and 103367309999. Hydrazine method used to determine nitrate plus nitrite concentrations (00631) was found to have interferences caused by other common ions in water samples. Values may be adjusted in the future to correct for these interferences.

## 10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**

Part 1 of 2

[Remark codes: &lt;, less than; M, presence verified but not quantified.]

Date	Time	Sample type	Instan-	Baro-	Dissolved	pH,	Specif.	Ammonia				
			taneous dis- charge, cfs (00061)	metric pres- sure, mm Hg (00025)	oxy- gen, mg/L (00300)	oxy- gen, percent of sat- uration (00301)	water, unfltrd field, std units (00400)	conduc- tance, wat unf uS/cm (00095)	Temper- ature, air, deg C (00020)	Temper- ature, water, deg C (00010)	+ org-N, water, mg/L (00623)	+ org-N, water, mg/L (00625)
Oct 05...	1500	Environmental	.08	--	--	--	--	152	20.0	5.5	--	.09
Nov 02...	1355	Environmental	.16	--	--	--	--	144	2.5	2.0	--	.18
Dec 10...	1340	Environmental	.19	606	11.0	99	8.1	135	1.5	1.5	.05	.08
Jan 10...	1135	Environmental	.20	--	--	--	--	133	1.5	.5	--	.18
Feb 04...	1215	Environmental	.21	--	--	--	--	135	5.5	1.5	--	.17
Mar 05...	1150	Environmental	.21	604	10.8	99	8.0	134	6.5	2.0	.08	.10
Apr 09...	1230	Environmental	.45	--	--	--	--	126	3.0	2.0	.12	.13
16...	1645	Environmental	1.1	--	--	--	--	113	12.5	2.5	.15	.14
18...	1340	Environmental	1.2	--	--	--	--	113	5.5	.5	.22	.27
22...	1245	Environmental	1.0	--	--	--	--	112	10.5	2.5	.17	.24
26...	1500	Environmental	1.5	--	--	--	--	103	14.5	3.5	.19	.22
May 03...	1015	Environmental	1.9	--	--	--	--	96	5.5	1.0	.21	.27
03...	1655	Environmental	3.0	--	--	--	--	91	13.0	3.0	.19	.28
04...	1205	Environmental	1.8	--	--	--	--	94	11.0	3.0	.21	.31
05...	1530	Environmental	2.7	--	--	--	--	91	8.0	3.0	.17	.33
09...	1500	Environmental	1.9	--	--	--	--	88	-.5	2.0	.19	.26
12...	1820	Environmental	3.1	--	--	--	--	88	9.5	3.5	.16	.41
16...	1525	Environmental	3.8	--	--	--	--	76	2.0	2.5	.25	.36
18...	1820	Environmental	6.2	--	--	--	--	75	9.0	2.5	.26	--
20...	1535	Environmental	4.6	--	--	--	--	74	13.5	4.5	.27	1.3
23...	1650	Environmental	4.0	--	--	--	--	78	17.5	7.0	.23	.37
25...	1740	Environmental	3.8	--	--	--	--	82	23.0	7.5	.26	.25
27...	1500	Environmental	3.0	--	--	--	--	87	24.5	9.5	.18	.27
Jun 01...	1510	Environmental	1.8	--	--	--	--	98	20.0	9.5	.17	.30
09...	1515	Environmental	1.6	601	9.2	100	8.0	105	12.0	8.4	.17	.27
20...	1420	Environmental	.79	--	--	--	--	116	20.5	8.5	.13	.21
Jul 05...	1615	Environmental	.25	--	--	--	--	132	25.0	10.5	.12	.13
Aug 04...	1600	Environmental	.06	--	--	--	--	153	24.5	10.5	--	.09
04...	1605	Replicate	--	--	--	--	--	--	--	--	--	.08
Sep 13...	1230	Environmental	.16	604	10.7	108	8.2	141	12.0	5.7	--	.07

## 10336740 LOGAN HOUSE CREEK NEAR GLENBROOK, NV—Continued

**WATER-QUALITY DATA**  
**WATER YEAR OCTOBER 2004 TO SEPTEMBER 2005**

Part 2 of 2

[Remark codes: &lt;, less than; M, presence verified but not quantified.]

Date	Nitrite + Ammonia water, fltrd, mg/L as N (00608)	Ortho-phosphate, water, fltrd, mg/L as P (00671)	Phosphorus, water, fltrd, mg/L (00666)	Phosphorus, unfltrd water, mg/L (00665)	Suspnd. sediment, diameter <.063mm (70331)	Sus-pended sediment percent	Sus-pended concentration mg/L (80154)	Sus-pended sediment discharge, tons/d (80155)
<b>Oct</b>								
05...	.004	.004	.001	.011	.013	--	2	<.01
<b>Nov</b>								
02...	.005	.002	.001	.018	.022	--	1	<.01
<b>Dec</b>								
10...	.003	.007	.001	.011	.015	--	3	<.01
<b>Jan</b>								
10...	<.003	.019	.001	.012	.019	--	5	<.01
<b>Feb</b>								
04...	.004	.021	.002	.009	.022	--	10	.01
<b>Mar</b>								
05...	.004	.021	.001	.007	.013	--	2	<.01
<b>Apr</b>								
09...	<.003	.015	.001	.009	.015	--	1	<.01
16...	.005	.017	.003	.009	.056	--	56	.17
18...	.004	.011	.003	.009	.019	--	5	.02
22...	.004	.009	.002	.018	.014	--	3	.01
26...	.007	.008	.002	.012	.012	--	5	.02
<b>May</b>								
03...	.006	.007	.003	.013	.021	--	5	.03
03...	.006	.007	.004	.010	.033	25	118	.96
04...	.006	.007	.003	.010	.015	--	6	.03
05...	.005	.007	.003	.017	.024	--	12	.09
09...	.006	.006	.003	.009	.018	--	3	.02
12...	.005	.007	.003	.011	.027	--	27	.23
16...	.005	.005	.004	.022	.025	--	14	.14
18...	.004	.006	.005	.019	.042	51	63	1.1
20...	.003	.005	.006	.019	.047	44	37	.46
23...	.005	.005	.005	.010	.027	--	17	.18
25...	.004	.004	.004	.010	.020	--	18	.18
27...	.004	.004	.002	.010	.016	--	5	.04
<b>Jun</b>								
01...	.004	.004	.002	.010	.013	--	2	.01
09...	.004	.003	.002	.024	.018	--	3	.01
20...	.004	.004	.001	.010	.012	--	3	.01
<b>Jul</b>								
05...	<.003	.003	.002	.010	.022	--	1	<.01
<b>Aug</b>								
04...	.004	.002	M	<.002	.011	--	2	<.01
04...	.005	.002	M	<.002	.011	--	--	--
<b>Sep</b>								
13...	.003	.015	.003	.009	.014	--	2	<.01